

## Aquatic Park Lagoon Enterococcus Sampling Results

Sample Collection Date	North	Middle	South	Comments/Observations
06/20/23	ND	ND	ND	
06/13/23	ND	52	ND	
06/06/23	41	10	10	Yellow Advisory has been lifted after 2 consecutive sets of bacteriological samples have no exceedances.
05/30/23	ND	ND	10	
05/23/23	20	ND	230	Lagoon is under Yellow Advisory due to Enterococcus exceedances in South sample point; no measurable amounts of precipitation were recorded on 5/23/23; no reported sewage release on/around 5/23/23;
05/16/23	ND	ND	ND	Advisory lifted as of 5/16/22 based on water sample results received for 2nd consecutive week w/no exceedances
05/09/23	ND	ND	ND	
05/02/23	860	30	20	Lagoon is under Yellow Advisory due to Enterococcus exceedances in North sample point; no measurable amounts of precipitation were recorded on 5/2/23; no reported sewage release on/around 5/2/23;
04/25/23	10/13 g/kg	ND/12 g/kg	ND/12 g/kg	Salinity samples were measured at 10, 12, & 12 g/kg
04/18/23	ND/10 g/kg	ND/11 g/kg	20/10 g/kg	Salinity samples were measured at 10, 11, & 10 g/kg
04/11/23	ND/8.9 g/kg	10/9.5 g/kg	20/9.4 g/kg	Salinity samples were measured at 8.9, 9.5 & 9.4 g/kg
04/04/23	ND/9 g/kg	20/9.1 g/kg	20/9.1 g/kg	Salinity samples were measured at 9, 9.1 & 9.1 g/kg
03/28/23	20/10 g/kg	630/8.9 g/kg	96/9 g/kg	Only one exceedance (middle) resulting in a continued Yellow advisory. Measurable amounts of rain were recorded during the early morning hours on 3/28/23, which could account for the spike in the middle sample. Salinity samples were measured at 10, 8.9 & 9 g/kg
03/21/23	31/12 g/kg	31/12 g/kg	400/11 g/kg	Only one exceedance (south) resulting in a continued Yellow advisory. Measurable amounts of rain were recorded during the early morning hours on 3/21/23 and continued into the week. Salinity samples were measured at 12, 12 & 11 g/kg
03/14/23	5500/11 g/kg	1300/10 g/kg	1600/10 g/kg	Exceedances in all 3 samples (north, middle and south) resulting in a continued Yellow advisory. Measurable amounts of precipitation were recorded on/around 3/14/23, which is a likely cause for the exceedances. Initiated salinity sampling at each of the sampling sites with results reflected as # grams of salt/kg of bay water (in the lagoon)
03/10/23	1000	860	800	Exceedances in all 3 samples (north, middle and south) resulting in a Yellow advisory. Measurable amounts of precipitation were recorded on/around 2/28/23, which is a likely cause for the exceedances.
02/21/23	20	100	30	
02/16/23	20	ND	ND	
02/07/23	20	10	10	Rec'd community concerns over the presence/observations of several dead leopard sharks and bat rays; staff conducted cursory assessment, and met with EBMUD staff who were investigating complaints of "rotten egg" odor, but unable to identify source/cause; notified Fish and Wildlife by completing Mortality Report on F/W website;

01/31/23	100	100	ND	Yellow Advisory lifted as of 2/9/23 based on two consecutive sample sets with no Enterococcus exceedances; reports of 3 dead sting rays observed on 2/7/23, however no other dead fish or other wildlife were observed/reported; State Fish and Wildlife were notified by the reporting party via email on 2/7/23
01/26/23	20	31	ND	
01/17/23	200	97	230	Lagoon to remain under yellow advisory; slight, but measurable amounts of rainfall was detected on 1/15/23; 2 of the 3 sample sites exceeded the Enterococcus thresholds;
01/10/23	4900	4100	1800	Lagoon to remain under yellow advisory; significant amounts of rainfall on 1/10/23 resulting in significant Enterococcus exceedances in each of the 3 sample points;
01/03/23	670	170	150	Lagoon to remain under yellow advisory; measurable amounts of rainfall on/around 1/2 - 1/3/23 resulting in Enterococcus exceedances in each of the 3 sample points;
12/29/22	380	2000	1700	Lagoon to remain under yellow advisory; measurable amounts of rainfall on/around 12/29/22 resulting in Enterococcus exceedances in each of the 3 sample points;
12/20/22	ND	30	1100	Lagoon to remain under yellow advisory; no measureable amounts of rain was detected on/around 12/20/22; unknown cause for Enterococcus spike from the South sample point as there was no 'unusual' activity observed at the lagoon during sampling
12/14/22	10	ND	100	Lagoon to remain under yellow advisory; no measureable amounts of rain on/around 12/14/22; staff observed "floating slime and foam" in the North and Middle sample points; abundance of ducks and other water fowl were observed in the South sample point at time of collection
12/06/22	ND	30	ND	
11/29/22	10	200	ND	Lagoon to remain under Yellow Advisory until 2 successive sample sets are all below the threshold of 110 cfu/100 ml; no detectable rainfall on/around 11/29/22; no observations/notes recorded re: the presence of water fowl and/or other unusual activity observed at the lagoon
11/22/22	ND	ND	150	Lagoon to remain under Yellow Advisory until 2 successive sample sets are all below the threshold of 110 cfu/100 ml; no detectable rainfall on/around 11/22/22, however staff observed ducks and other water fowl present in moderate numbers between the middle and southern sampling points
11/15/22	ND	ND	10	
11/08/22	500	660	590	Lagoon is under Yellow Advisory due to Enterococcus exceedances in each of the collected samples; Measurable amounts of precipitation were recorded on 11/7/22 and 11/8/22, which likely accounts for the elevated Enterococcus levels in each sample;
11/03/22	ND	31	ND	
10/25/22	ND	31	ND	
10/18/22	10	ND	ND	

10/17/22				No Enterococcus samples collected this day, however, EH staff investigated a report of a what appeared to be a small quantity of paint dumped into the lagoon; City Parks Division dispatched Clean Harbors to boom and vacuum up remaining paint residual that same day, 10/17/22. There were no sightings or reports of other dead fish or other animals as a result.
10/13/22	ND	ND	ND	
09/22/22	ND	31	ND	
09/13/22	ND	ND	10	
09/06/22	ND	ND	ND	
08/23/22	ND	ND	ND	
08/16/22	ND	ND	ND	
08/09/22	ND	ND	ND	
08/04/22	ND	ND	ND	
07/26/22	ND	ND	ND	
07/19/22	20	10	ND	
07/12/22	ND	10	20	
07/05/22	20	10	10	
06/28/22	31	41	10	
06/23/22	ND	10	ND	
06/14/22	ND	100	30	
06/06/22	41	20	10	
05/31/22	0	10	10	
05/26/22	10	ND	ND	
05/17/22	ND	ND	ND	
05/10/22	ND	ND	ND	
05/03/22	10	100	ND	Advisory lifted as of 5/16/22 based on water sample results received for 2nd consecutiv week w/no exceedances
04/26/22	0	10	10	
04/19/22	200	110	10	Exceedances in 2 of 3 samples (north, middle lagoon sample) resulting in the continuance of a Yellow advisory. Measurable amounts of precipitation were recorded on 4/19/22, which is a likely cause for the exceedance.
04/12/22	100	200	ND	Exceedances in of 3 samples (middle lagoon sample) resulting in the continuance of a Yellow advisory. Measurable amounts of precipitation were recorded on 4/11/22, which is a likely cause for the exceedance.
04/05/22	ND	ND	10	
03/29/22	10	200	100	Exceedance in 1 of 3 samples (middle sample) resulting in a Yellow advisory. Mesurable amounts of precipitation were recorded on 3/27 and on 3/28/2022, which is a likely cause for the exceedance.
03/22/22	10	ND	100	
03/15/22	10	75	20	
03/08/22	ND	10	20	
03/01/22	10	ND	ND	
02/22/22	ND	10	ND	Advisory lifted as of 2/22/22 based on water sample results received for 2nd consecutiv week w/no exceedances
02/15/22	ND	20	20	
02/08/22	ND	410	41	Yellow Advisory reinstated due to an exceedances in 1 of the 3 samples collected on 2/8/2022; there was no measureable amount of rainfall, and there were no reports of sewage releases on/or around 2/8/2022

02/03/22	ND	ND	ND	Advisory lifted as of 2/10/22 based on satisfactory results of each of the 3 sample points testing below the 110 cfu/100ml threshold for 2 consecutive weeks after the exceedance on the 1/13/22 sample
01/25/22	ND	41	20	
01/18/22	ND	20	20	
01/13/22	ND	620	30	Advisory to remain in-effect for 2 additional sampling events due to a spike in the Enterococcus levels collected from the mid-lagoon sampling point. No reports of sewage release, however there was a report of possible illegal dumping which was received on 1/5/22; EH staff investigated but were unable to determine whether illegal dumping occurred;
01/04/22	180	180	41	Advisory reinstated due to exceedances in 2 of the 3 samples collected on 1/4/2022; minor amounts of rainfall ranging from 0.1 - 0.3" fell from 1/1 - 1/4/2022, which may have contributed to the higher bacterial counts; there were no reports of sewage releases in/around the Aquatic Park Lagoon; there was a report of possible illegal dumping into the lagoon on/around 1/5/2022, however, EH staff investigated but were unable to confirm
01/13/22	ND	620	30	Advisory to remain in-effect for 2 additional sampling events due to a spike in the Enterococcus levels collected from the mid-lagoon sampling point. No reports of sewage release, however there was a report of possible illegal dumping which was received on 1/5/22; EH staff investigated but were unable to determine whether illegal dumping occurred;
01/18/22	ND	20	20	
12/28/21	10	100	41	Advisory lifted as of 1/10/22 based on satisfactory results of each of the 3 sample points testing below the 110 cfu/100ml threshold for 2 consecutive weeks after the exceedances on the 12/14/21 samples
12/21/21	41	10	100	
12/14/21	1800	3,300	2700	Yellow Advisory to remain in-effect due to exceedances in each of the 3 sample locations; over 3" of rainfall were recorded on 12/13/21, which likely caused the bacteria levels to spike
12/07/21	360	10	100	Yellow Advisory posted on Friday, 12/17/21 due to elevated Enterococcus level in the North sample point on 12/7/21; no measurable amounts of rain were recorded on 12/6/21, and no reports of surfacing sewage overflows on/around 12/7/21
11/30/21	ND	ND	20	
11/23/21	10	ND	50	Advisory lifted as of 12/7/21 based on satisfactory results of each of the 3 sample points testing below the 110 cfu/100ml threshold for 2 consecutive weeks after the initial exceedance on the 11/9/21 sample
11/16/21	31	10	100	
11/09/21	400	1,200	100	Mesurable amounts of precipitation were recorded on 11/8/21 and 11/9/21, which is the likely cause for elevated Enterococcus levels; Yellow Advisory to remain in-effect for at least 2 consecutive sampling cycles
11/02/21	10	100	10	
10/26/21	8200	10,400	6488	Yellow Advisory posted on Friday, 10/29/21 due to preliminary results provided by lab; spike caused by significant rain events during previous several days prior to sample collection
10/19/21	10	ND	ND	
10/12/21	10	ND	ND	
10/05/21	ND	10	ND	
09/30/21	20	ND	ND	Sample collected on Thursday instead of Tuesday

09/21/21	20	ND	ND	
09/14/21	ND	ND	ND	
09/07/21	ND	10	ND	
08/31/21	ND	30	ND	
08/24/21	ND	ND	10	
08/17/21	ND	10	ND	
08/10/21				
08/03/21	ND	ND	ND	
07/27/21	ND	ND	ND	
07/20/21	ND	10	ND	Advisory lifted as of 7/28/21 based on satisfactory results of each of the 3 sample points testing below the 110 cfu/100ml threshold for 2 consecutive weeks after the initial exceedance on the 7/6/21 sample
07/13/21	ND	10	10	
07/06/21	ND	230	ND	Yellow Advisory to be posted; no reports of sewage release in/around the AP lagoon; no rain recorded since April; according to our staff sampler, there was a large presence of Canadian geese in middle segment of the lagoon at the time of sampling
06/29/21	ND	41	ND	
06/22/21	ND	ND	10	
06/15/21	ND	10	ND	
06/08/21	ND	10	ND	
06/01/21	ND	ND	ND	
05/25/21	ND	31	ND	
05/18/21	ND	41	ND	
05/11/21	ND	ND	10	
05/04/21	ND	20	ND	
04/27/21	10	100	20	
04/20/21	10	ND	ND	
04/13/21	ND	ND	10	
04/06/21	20	10	10	
03/30/21	20	20	ND	
03/23/21	10	ND	20	
03/16/21	ND	ND	ND	
03/09/21	41	31	ND	
03/02/21	ND	10	ND	
02/23/21	31	ND	10	
02/16/21	ND	20	10	Advisory lifted as of 2/25/21 based on water sample results received for 2nd consecutive week w/no exceedances
02/09/21	ND	ND	41	Advisory posted on 2/11/21 due to notification of Enterococcus exceedances in water samples collected on 2/2/21
02/02/21	590	360	120	Fairly significant rainfall between 1/31/21 - 2/2/21; no reported sewage releases reported in Berkeley on/around that date range
01/26/21	ND	10	ND	
01/19/21	31	100	200	No rain reported, however unusually strong wind gusts recorded earlier that morning and during the day, which could have blown additional debris into the lagoon
01/12/21	10	ND	100	
01/05/21	160	63	31	Some rainfall recorded on 1/4 and 1/6/21
12/29/20	31	10	63	
12/22/20	10	10	ND	
12/15/20	1300	20	120	Fairly significant rainfall recorded on 12/13/20; no reported sewage releases reported in Berkeley on/around that date
12/08/20	100	10	100	
12/01/20	10	ND	ND	
11/24/20	10	10	10	

11/17/20	10	200	200	Minor rain showers
11/10/20	10	ND	ND	
11/03/20	ND	10	10	
10/27/20	ND	ND	10	
10/20/20	200	ND	10	No reported sewage releases reported in/around Berkeley
10/13/20	20	ND	* N/A	* Sample not collected due to time constraint with sample 'hold-time' and courier service
10/06/20	ND	ND	10	
09/29/20	ND	20	100	
09/22/20	84	ND	ND	
09/17/20	10	97	31	

**NOTE:** The State standard for monitoring water quality and determining posting status for the Aquatic Park lagoon is based on the "Enterococcus" numbers only. Enterococcus figures in **RED** exceed the State Standard

<http://www.balancehydrologics.com/raingage/index.php>

[https://www.waterboards.ca.gov/water\\_issues/programs/sso/sso\\_map/sso\\_pub.shtml](https://www.waterboards.ca.gov/water_issues/programs/sso/sso_map/sso_pub.shtml)

Indicates Advisory Posted due to Enterococcus exceedance

<b>CALIFORNIA STATE STANDARDS</b>	CURRENT STATE STANDARDS FOR SINGLE SAMPLE (#cfu/100 ml)
BACTERIAL CONSTITUENT	≤ 110
<b>Enterococcus:</b>	